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CLAIM AMENDMENTS

Claim Amendment Summary

Claims pending

- At time of the Action: Claims 1-50.
- After this Response: Claims 1-18, 42, 45, and 48.

Canceled or Withdrawn claims: 19-41, 43-44, 46-47, and 49-50.

Amended claims: none.

New claims: none.

Claims:

1. (ORIGINAL) A method of serializing an object, the method comprising:

generating a data structure ("datastruct") element representative of a data structure of a first object, the datastruct element having a pair of datastruct tags, wherein the datastruct tags identify the datastruct element;

generating contents of the datastruct between the datastruct tags, the contents comprising one or more data parameter elements representative of one or more data parameters of the first object's data structure, each parameter element having a pair of parameter tags associated therewith, wherein each pair of parameter tags identifies a parameter element with which the pair of tags is associated, each parameter element having associated data between the pair of parameter tags.

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Serial No.: 09/635,830
Atty Docket No.: MS1-521us
RESPONSE TO OFFICE ACTION DATED 6/14/2004

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atty: Kasey C. Christie

1
2 2. **(ORIGINAL)** A method as recited in claim 1, wherein the contents
3 further comprise at least one object reference referencing a second object within
4 the data structure of the first object without including the second object within the
5 contents of the datastruct element.

6
7 3. **(ORIGINAL)** A method as recited in claim 2, wherein the second
8 object is the first object.

9
10 4. **(ORIGINAL)** A method as recited in claim 1, wherein the contents
11 comprises a datatype definition for at least one data parameter element.

12
13 5. **(ORIGINAL)** A method as recited in claim 1, wherein the contents
14 comprises a reference to a datatype definition for at least one data parameter
15 element.

16
17 6. **(ORIGINAL)** A method as recited in claim 1, wherein at least one of
18 the pair of datastruct tags comprises a datatype definition for at least one data
19 parameter element.

20
21 7. **(ORIGINAL)** A method as recited in claim 1, wherein at least one of
22 the pair of datastruct tags comprises a reference to a datatype definition for at least
23 one data parameter element.
24
25

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1 8. (ORIGINAL) A method as recited in claim 1, wherein at least one of
2 a pair of parameter tags comprises a datatype definition for associated data
3 between the parameter tags.

4
5 9. (ORIGINAL) A method as recited in claim 1, wherein at least one of
6 a pair of parameter tags comprises a reference to a datatype definition for
7 associated data between the parameter tags.

8
9 10. (ORIGINAL) A method as recited in claim 1, wherein the datastruct
10 element and its contents are encoded using XML.

11
12 11. (ORIGINAL) A method as recited in claim 1 further comprising:
13 inserting the datastruct element into a message; and
14 sending the message to an entity on a network.

15
16 12. (ORIGINAL) A method as recited in claim 11 further comprising:
17 formatting the message for sending over a network using HTTP;
18 sending the message to an entity on the network by using HTTP.

19
20 13. (ORIGINAL) A method as recited in claim 11 further comprising:
21 binding the message into a HTTP request;
22 sending the message to an entity on the network by using HTTP.

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1 14. (ORIGINAL) A method as recited in claim 1, wherein a data
2 parameter element has the following format:

3 <parameter_label> parameter_data </parameter_label>
4

5 the <parameter_label> being one of the pair of parameter tags, the
6 </parameter_label> being the other of the pair of parameter tags, and the
7 parameter_label identifying the data parameter element;

8 the parameter_data being the data associated with the parameter element
9 identified by the parameter_label.

10
11 15. (ORIGINAL) A computer-readable storage medium having
12 computer-executable instructions that, when executed by a computer, performs the
13 method as recited in claim 1.

14
15 16. (ORIGINAL) A method of serializing an object, the method
16 comprising:

17 generating a data structure ("datastruct") element having a pair of datastruct
18 tags encoded in XML, wherein the datastruct tags identify the datastruct element;

19 generating contents of the datastruct between the datastruct tags, the
20 contents comprising one or more data parameter elements, each having a pair of
21 parameter tags associated therewith and encoded in XML, wherein each pair of
22 parameter tags identifies a parameter element with which the pair of tags is
23 associated, each parameter element having associated data between the parameter
24 tags.
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1 **17. (ORIGINAL)** A method of serializing an object, the method
2 comprising:

3 generating a data structure ("datastruct") element representative of a data
4 structure of a first object, the datastruct element having a pair of datastruct tags,
5 wherein the datastruct tags identify the datastruct element;

6 generating contents of the datastruct element between the datastruct tags,
7 the contents comprising at least one object reference referencing a second object
8 within the data structure of the first object without including the second object
9 within the contents of the datastruct element.

10
11 **18. (ORIGINAL)** A method as recited in claim 17, wherein the second
12 object is the first object.

13
14 **Claims 19-41 are NON-ELECTED AND THUS CANCELED.**
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1 **42. (ORIGINAL)** A computer-readable storage medium having
2 computer-executable instructions that, when executed by a computer, performs a
3 method of formatting a message for exchange between entities on a network, the
4 method comprising:

5 generating a data structure ("datastruct") element representative of a data
6 structure of a first object, the datastruct element having a pair of datastruct tags,
7 wherein the datastruct tags identify the datastruct element;

8 generating contents of the datastruct between the datastruct tags, the
9 contents comprising one or more data parameter elements representative of one or
10 more data parameters of the first object's data structure, each parameter element
11 having a pair of parameter tags associated therewith, wherein each pair of
12 parameter tags identifies a parameter element with which the pair of tags is
13 associated, each parameter element having associated data between the parameter
14 tags.

15
16 **43. (CANCELED)**

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18 **44. (CANCELED)**
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1 45. (ORIGINAL) An apparatus comprising:

2 a processor;

3 an object serializer executable on the processor to:

4 generate a data structure ("datastruct") element representative of a
5 data structure of a first object; the datastruct element having a pair of
6 datastruct tags, wherein the datastruct tags identify the datastruct element;

7 generate contents of the datastruct between the datastruct tags, the
8 contents comprising one or more data parameter elements representative of
9 one or more data parameters of the first object's data structure, each
10 parameter element having a pair of parameter tags associated therewith,
11 wherein each pair of parameter tags identifies a parameter element with
12 which the pair of tags is associated, each parameter element having
13 associated data between the parameter tags.

14
15 46. (CANCELED)

16
17
18 47. (CANCELED)


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1 **48. (ORIGINAL)** A data structure for use with a computer having a
2 processor and a memory, said structure comprising one or more data parameter
3 elements, each parameter element having a pair of parameter tags associated
4 therewith and encoded in XML, wherein each pair of parameter tags identifies a
5 parameter element with which the pair of tags is associated, each parameter
6 element having associated data between the parameter tags.

7
8 **49. (CANCELED)**
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11 **50. (CANCELED)**
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